

AMENDMENTS TO THE CLAIMS:

Please replace the claims with the claims provided in the listing below wherein status, amendments, additions and cancellations are indicated.

1. (Currently Amended) A turning device for a heavy object comprising:
a turning arm joined to the heavy object, said turning arm being turnable and ~~turning~~ around a turning pivot on ~~[[the]]~~ an axial line; and
a drive device for driving a turning operation of the turning arm, ~~wherein: the drive device is composed of~~ including:
 - a fixing section[[,]];
 - a rotation input section[[,]];
 - a rotation output section having ~~an orthogonal~~ a plane orthogonal to the axial line of the turning pivot[[,]];
 - a planetary gear type speed reducer ~~[[with]]~~ including a pair of ball bearings disposed between the fixing section and the rotation output section;
 - and
 - a motor including a rotor shaft coaxially connected to a stator having a coil and ~~[[the]]~~ to the rotation input section, ~~of the planetary gear type speed reducer, and that~~ the turning arm ~~[[has]]~~ having a first plane connected to the plane of the rotation output section and a second plane connected to the heavy object, positioned nearer to the heavy object ~~[[from]]~~ than the axial line of the

turning pivot and orthogonal to the first plane, and the turning arm and the drive device ~~[[are]]~~ being disposed within a width of the ~~turning pivot of the~~ heavy object in the axial direction of the turning pivot.

2. (Currently amended) The turning device for a heavy object according to claim 1 wherein:

~~[[the]]~~ an axial center of the turning pivot ~~of the heavy object~~ is positioned within a distance between one of the pair of ball bearings, which is positioned on the orthogonal plane side of the rotation output section, and an intersection obtained by crossing the axial line of the turning pivot with a line at a bearing contact angle to ~~[[the]]~~ a perpendicular line of the one ball bearing.

3. (Currently amended) The turning device for a heavy object according to claim 1 wherein:

a previous-stage speed reducer as a previous-stage reduction gear mechanism is disposed between the planetary gear type speed reducer and the motor;

an input rotation section of the previous-stage speed reducer and the rotor shaft of the motor are coaxially coupled to each other; and

the output rotation section of the previous-stage speed reducer and the input rotation section of the planetary gear type speed reducer are coaxially coupled to each other.

4. (Currently amended) The turning device for a heavy object according to claim 1, wherein:

a supporting block for fixing the planetary gear type speed reducer and a frame for mounting the supporting block are provided;

~~the fixing section of the planetary gear type speed reducer has a circular outside-diameter section and~~ a mounting flat surface parallel to the plane of the rotation output section which includes a circular outside-diameter section;

the supporting block includes a first mounting surface for mounting the mounting flat surface of the fixing section of the planetary gear type speed reducer, a second mounting surface for mounting the frame and orthogonal to the first mounting surface, and a pair of rib sections for connecting outer ~~[[both]]~~ ends of the first mounting surface with corresponding outer ~~[[both]]~~ ends of the second mounting surface; and

the outside-diameter section of the mounting flat surface of the fixing section of the planetary gear type speed reducer is cut so that ~~[[its]]~~ a side of the pair of ribs may be shorter than ~~[[the]]~~ a circular outside diameter of said outside-diameter section.

5. (Currently amended) A turning device for a heavy object comprising:
a turning arm joined to ~~[[a]]~~ the heavy object and turning around a turning pivot on ~~[[the]]~~ an axial line; and

a drive device for driving a turning operation of the turning arm, ~~wherein: the~~
drive device ~~includes~~ including:

a fixing section[[],];

a rotation input section[[],];

a rotation output section having ~~an orthogonal~~ a plane orthogonal to
the axial line of the turning pivot[[],];

a planetary gear type reducer having a pair of ball bearings disposed
between the fixing section and the rotation output section[[],]; and

a motor disposed coaxially to the rotation input section, ~~of the~~
~~planetary gear type speed reducer;~~ the turning arm ~~[[has]]~~ having a first plane
joined to the plane of the rotation output section and a second plane
orthogonal to the first plane, ~~and the turning arm and the drive device [[are]]~~
being disposed within a width ~~in the axial direction of the turning pivot of the~~
heavy object in the axial direction of the turning pivot.